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QC ABSTRACT

NAME OF WORK: Asphalting to Sainagara phase-I and surrounding ares in ward no-03 Yelahanka satellite Town sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2021-02-04-06 **Date: 25-01-21**
Project Name	:	Asphalting to Sainagara phase-I and surrounding ares in ward no-03 Yelahanka satellite Town sub Division
Agency	:	M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/W.O/199/2019-20
Date of Receipt	:	22-01-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	23-01-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.98	–
2	Finess by Air permeablity method (m^2/kg,Min)	297.3	225m^2/kg, Min
3	Density (gm/cc)	3.11	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	285 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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FOR CIVIL Pro,

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-02-04-06** **Date: 25-01-21**
Project Name	:	Asphalting to Sainagara phase-I and surrounding ares in ward no-03 Yelahanka satellite Town sub Division
Agency	:	M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/W.O/199/2019-20
Date of Receipt	:	22-01-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates)
		IS: 2386 :1963(Part - 1,3,4) RA2011
		IS 2386 Part 1: Particle Size and Shape
		IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
		IS 2386 Part 4: Mechanical Properties
Date of test	:	22-01-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	5049	5263	35.1	64.9	30-70
4	10 mm	7132	12395	82.6	17.4	10-35
5	4.75 mm	2121	14516	96.8	3.2	0-5
6	Pan	484	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-02-04-06 Date: 25-01-21

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.57	–
4	Bulk Density(Loose) (Kg/l)	1.41	–
5	Bulk Density(Compacted) (Kg/l)	1.49	–
6	Water Absorption(%)	0.28	–
7	Aggregate crushing Value(%)	23.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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Authorized Signature
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2021-02-04-06

Date: 25-01-21

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2021-02-04-06 Date: 20-02-21

Project Name : Asphalting to Sainagara phase-I and surrounding ares in ward no-03 Yelahanka satellite Town sub Division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

Customer's Reference : BBMP/EE/YNK.D/W.O/199/2019-20

Date of Receipt : 16-02-21

Sample Type /Size : Precast Cover Slab (100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 16/02/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-04-06 **Date: 05/03/2021**

Project Name : Asphalting to Sainagara phase-I and surrounding ares in ward no-03 Yelahanka satellite Town sub Division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

Customer's Reference : BBMP/EE/YNK.D/W.O/199/2019-20

Date of Receipt : 01-03-21

Customer ID : PCC, 2nd cross

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	26/02/2021	05/03/2021	149.14 X 151.30 X 149.38	22566	8.942	274.5	12.2	12.4
2	PCC	M15	26/02/2021	05/03/2021	150.25 X 151.01 X 150.87	22690	8.690	285.8	12.6	
3	PCC	M15	26/02/2021	05/03/2021	149.41 X 151.30 X 151.76	22605	8.280	281.0	12.4	

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
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****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/03/2021

Lab ID	:	CP-2021-02-04-06
Project Name	:	Asphalting to Sainagara phase-I and surrounding ares in ward no-03 Yelahanka satellite Town sub Division
Agency	:	M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/W.O/199/2019-20
Date of Receipt	:	01-03-21
Customer ID	:	PCC, 1st cross
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	26/02/2021	26/03/2021	151.56 X 151.15 X 150.03	22909	8.435	402.5	17.6	17.6
2	PCC	M15	26/02/2021	26/03/2021	151.21 X 151.39 X 151.01	22892	8.725	409.3	17.9	
3	PCC	M15	26/02/2021	26/03/2021	150.86 X 151.36 X 150.91	22835	8.757	399.1	17.5	

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-04-06 Date: 09/02/2021

Project Name : Asphalting to Sainagara phase-I and surrounding ares in ward no-03 Yelahanka satellite Town sub Division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

Customer's Reference : BBMP/EE/YNK.D/W.O/199/2019-20

Date of Receipt : 04-02-21

Customer ID : Drain Bottom Slab Concrete, 2nd cross road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	02/02/2021	09/02/2021	150.49 X 150.04 X 151.15	22579	8.389	411.7	18.2	18.2
2	Drain Bottom Slab Concrete	M20	02/02/2021	09/02/2021	151.09 X 149.93 X 150.71	22652	8.614	411.8	18.2	
3	Drain Bottom Slab Concrete	M20	02/02/2021	09/02/2021	150.63 X 149.78 X 149.51	22562	8.562	407.5	18.1	

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

b ID	:	CP-2021-02-04-06
		Date: 10/02/2021
ject Name	:	Asphalting to Sainagara phase-I and surrounding ares in ward no-03 Yelahanka satellite Town sub Division
gency	:	M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010
stomer's Reference	:	BBMP/EE/YNK.D/W.O/199/2019-20
ate of Receipt	:	05-02-21
stomer ID	:	Drain Bottom Slab Concrete, Anugraha layout 1st cross
ample Type /Size	:	150X150X150 mm
ample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	03/02/2021	10/02/2021	150.83 X 149.28 X 150.38	22516	8.389	425.7	18.9	18.7
2	Drain Bottom Slab Concrete	M20	03/02/2021	10/02/2021	149.89 X 149.15 X 150.66	22356	8.614	411.1	18.4	
3	Drain Bottom Slab Concrete	M20	03/02/2021	10/02/2021	151.62 X 151.71 X 150.53	23003	8.562	434.5	18.9	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

ab ID : CP-2021-02-04-06 Date: 03/03/2021

roject Name : Asphalting to Sainagara phase-I and surrounding ares in ward no-03 Yelahanka satellite Town sub Division

gency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

ustomer's Reference : BBMP/EE/YNK.D/W.O/199/2019-20

ate of Receipt : 05-02-21

ustomer ID : Drain Bottom Slab Concrete, 2nd main Road

ample Type /Size : 150X150X150 mm

ample grade/Age : M20 / 28 Days Compressive Strength

eference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

ate of test : 03/03/2021

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	03/02/2021	03/03/2021	149.97 X 150.70 X 150.75	22600	8.530	536.4	23.7	23.1
2	Drain Bottom Slab Concrete	M20	03/02/2021	03/03/2021	149.32 X 149.72 X 150.01	22357	8.882	497.5	22.3	
3	Drain Bottom Slab Concrete	M20	03/02/2021	03/03/2021	151.06 X 149.02 X 151.70	22512	8.667	526.1	23.4	

The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-04-06 Date: 05/03/2021

Project Name : Asphalting to Sainagara phase-I and surrounding ares in ward no-03 Yelahanka satellite Town sub Division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

Customer's Reference : BBMP/EE/YNK.D/W.O/199/2019-20

Date of Receipt : 08-02-21

Customer ID : Drain Side Wall Concrete, 1st main Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	05/02/2021	05/03/2021	150.87 X 150.68 X 151.69	22733	8.530	544.4	23.9	23.3
2	Drain Side Wall Concrete	M20	05/02/2021	05/03/2021	150.64 X 150.60 X 151.98	22687	8.882	514.9	22.7	
3	Drain Side Wall Concrete	M20	05/02/2021	05/03/2021	149.47 X 150.60 X 151.29	22511	8.667	526.4	23.4	

* The results obtained are satisfactory as per standard requirements.

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M: 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

b ID	:	CP-2021-02-04-06 Date: 13/02/2021
oject Name	:	Asphalting to Sainagara phase-I and surrounding ares in ward no-03 Yelahanka satellite Town sub Division
gency	:	M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010
stomer's Reference	:	BBMP/EE/YNK.D/W.O/199/2019-20
ate of Receipt	:	08-02-21
stomer ID	:	Drain Side Wall Concrete, 4th Cross Road
ample Type /Size	:	150X150X150 mm
ample grade/Age	:	M20 / 7 Days Compressive Strength
eference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
ate of test	:	13/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	06/02/2021	13/02/2021	151.23 X 150.00 X 151.29	22684	8.389	428.2	18.9	18.6
2	Drain Side Wall Concrete	M20	06/02/2021	13/02/2021	149.38 X 150.58 X 150.87	22494	8.614	407.9	18.1	
3	Drain Side Wall Concrete	M20	06/02/2021	13/02/2021	149.75 X 149.25 X 150.86	22349	8.562	420.3	18.8	

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-100

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CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2021-02-04-06 Date: 17/02/2021

ob ID : Asphalting to Sainagara phase-I and surrounding ares in ward no-03 Yelahanka satellite Town sub Division

roject Name : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

gency : BBMP/EE/YNK.D/W.O/199/2019-20

Customer's Reference : 12-02-21

Date of Receipt : Culvert Bottom Slab Concrete, 2nd cross road

Customer ID : 150X150X150 mm

Sample Type /Size : M20 / 7 Days Compressive Strength

Sample grade/Age : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Reference to BIS codes : 17/02/2021

Date of test

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete	M20	10/02/2021	17/02/2021	149.56 X 149.91 X 150.66	22421	8.389	422.5	18.8	18.8
2	Culvert Bottom Slab Concrete	M20	10/02/2021	17/02/2021	149.84 X 149.45 X 149.73	22394	8.614	417.5	18.6	
3	Culvert Bottom Slab Concrete	M20	10/02/2021	17/02/2021	151.19 X 150.84 X 150.25	22805	8.562	429.8	18.8	

* The results obtained are satisfactory as per standard requirements.

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/02/2021

Lab ID	:	CP-2021-02-04-06
Project Name	:	Asphalting to Sainagara phase-I and surrounding ares in ward no-03 Yelahanka satellite Town sub Division
Agency	:	M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/W.O/199/2019-20
Date of Receipt	:	15-02-21
Customer ID	:	Culvert Side Wall Concrete, 2nd cross road
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	13/02/2021	20/02/2021	149.71 X 149.25 X 149.62	22344	8.389	406.0	18.2	18.2
2	Culvert Side Wall Concrete	M20	13/02/2021	20/02/2021	150.48 X 149.24 X 149.95	22458	8.614	414.4	18.5	
3	Culvert Side Wall Concrete	M20	13/02/2021	20/02/2021	151.95 X 150.60 X 149.28	22883	8.562	414.4	18.1	

* The results obtained are satisfactory as per standard requirements.

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2021-02-04-06 — Date: 13/03/2021
ject Name	:	Asphalting to Sainagara phase-I and surrounding ares in ward no-03 Yelahanka satellite Town sub Division
ency	:	M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010
stomer's Reference	:	BBMP/EE/YNK.D/W.O/199/2019-20
te of Receipt	:	15-02-21
stomer ID	:	Culvert Side Wall Concrete, 1st main Road
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 28 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
te of test	:	13/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	13/02/2021	13/03/2021	151.30 X 149.48 X 150.23	22618	8.530	526.2	23.3	23.1
2	Culvert Side Wall Concrete	M20	13/02/2021	13/03/2021	149.73 X 149.18 X 151.94	22337	8.882	505.0	22.6	
3	Culvert Side Wall Concrete	M20	13/02/2021	13/03/2021	151.02 X 149.63 X 149.22	22597	8.667	527.0	23.3	

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR WMM

ab ID	:	CP-RW-2021-02-04-06 **Date: 10-03-21**
roject Name	:	Asphalting to Sainagara phase-I and surrounding ares in ward no-03 Yelahanka satellite Town sub Division
gency	:	M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010
ustomer Reference	:	BBMP/EE/YNK.D/W.O/199/2019-20
ate of Receipt	:	08-03-21
ype of Mix	:	WMM (Wet Mix Macadam)
ate of test	:	08-03-21
ven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR WMM

ab ID	:	CP-RW-2021-02-04-06 Date: 12-03-21
roject Name	:	Asphalting to Sainagara phase-I and surrounding ares in ward no-03 Yelahanka satellite Town sub Division
gency	:	M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010
ustomer Reference	:	BBMP/EE/YNK.D/W.O/199/2019-20
ate of Receipt	:	10-03-21
ype of Mix	:	WMM (Wet Mix Macadam)
ate of test	:	10-03-21
ven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

* The results obtained are satisfactory as per standard requirements.

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2021-02-04-06 Date: 17-03-21

Project Name : Asphalting to Sainagara phase-I and surrounding ares in ward no-03 Yelahanka satellite Town sub Division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010

Customer Reference : BBMP/EE/YNK.D/W.O/199/2019-20

Date of Receipt : 15-03-21

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 15-03-21

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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M. 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	CP-RW-2021-02-04-06 Date: 12-03-21
Project Name	:	Asphalting to Sainagara phase-I and surrounding ares in ward no-03 Yelahanka satellite Town sub Division
Agency	:	M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010
Customer Reference	:	BBMP/EE/YNK.D/W.O/199/2019-20
Date of Receipt	:	09-03-21
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	09-03-21

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

* The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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